

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/IB2004/051443

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L25/14 H04L7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RICH TABOREK: "Hari Coding Objectives" INTERNET ARTICLE, 'Online! XP002310888 Retrieved from the Internet: URL: http://grouper.ieee.org/groups/802/3/1OG_study/public/nov99/taborek_1_1199.pdf * Slides 1,2,6,17 *	1-35
X	US 5 598 442 A (CAPOWSKI ROBERT S ET AL) 28 January 1997 (1997-01-28) abstract column 2, line 31 - line 50; figure 1 column 3, line 19 - line 64; figures 2,3 ----- -/--	1-35

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

15 December 2004

Date of mailing of the international search report

29/12/2004

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Martínez Martínez, V

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051443

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>FUKAISHI M ET AL: "A 4.25 Gb/s CMOS fiber channel transceiver with asynchronous binary tree-type demultiplexer and frequency conversion architecture" SOLID-STATE CIRCUITS CONFERENCE, 1998. DIGEST OF TECHNICAL PAPERS. 1998 IEEE INTERNATIONAL SAN FRANCISCO, CA, USA 5-7 FEB. 1998, NEW YORK, NY, USA, IEEE, US, 5 February 1998 (1998-02-05), pages 306-307, 452, XP010278587 ISBN: 0-7803-4344-1 page 1, right-hand column, paragraph 2; figure 5</p> <p>-----</p>	1, 12, 19, 22, 26, 32